

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(cancelled)**
2. **(cancelled)**
3. **(cancelled)**
4. **(cancelled)**
5. **(cancelled)**
6. **(cancelled)**

7. **(previously presented)** A coaxial connector for attachment to a coaxial cable, the coaxial cable including an outer conductor, the outer conductor of the coaxial cable having a predetermined outer diameter, and the outer conductor of the coaxial cable having an inner surface and an opposing outer surface, the coaxial connector comprising:

an outer terminal having front and back opposing ends, the back end of said outer terminal including a first angled contact face integral with said outer terminal; and

a back nut releasably attachable to the back end of said outer terminal and extending around the back end of said outer terminal, and axially displaceable with respect to said outer terminal, the back nut including a second angled contact face integral with said back nut, the back nut including an internal bore extending therethrough for allowing passage of the coaxial cable therethrough, at least a portion of the internal bore having a predetermined internal diameter commensurate with the predetermined outer diameter of the outer conductor of the coaxial cable,

wherein said first angled contact face and said second angled contact face form a clamping site therebetween, said clamping site being tightened as said back nut is axially displaced with respect to said outer terminal, wherein said first angled contact face has a length that is shorter than said predetermined internal diameter, and wherein said second angled contact face has a length that is shorter than said predetermined internal diameter, said first angled contact face directly engaging the inner surface of

the outer conductor of the coaxial cable, and said second angled contact face directly engaging the outer surface of the outer conductor of the coaxial cable, and

wherein the coaxial cable includes an inner conductor having an outer surface, and wherein the coaxial connector includes an inner terminal adapted to engage the outer surface of the inner conductor of the coaxial cable.

8. **(cancelled)**

9. **(previously presented)** The connector of Claim 7 wherein a mechanical connection between said cable and said connector is established via said clamping site.

10. **(previously presented)** The connector of Claim 7, wherein the outer conductor of said cable is either corrugated or smooth.

11. **(previously presented)** A coaxial connector for attachment to a coaxial cable including an outer conductor, the outer conductor of the coaxial cable having a predetermined outer diameter and the outer conductor of the coaxial cable having an inner surface and an opposing outer surface, the coaxial connector comprising:

an outer terminal having front and back opposing ends, the back end of said outer terminal including a first angled contact face integral with said outer terminal;

a back nut releasably attachable to the back end of said outer terminal and extending around the back end of said outer terminal, and axially displaceable with respect to said outer terminal, the back nut including a second angled contact face integral with said back nut, the back nut including an internal bore extending therethrough for allowing passage of the coaxial cable therethrough, at least a portion of the internal bore having a predetermined internal diameter commensurate with the predetermined outer diameter of the outer conductor of the coaxial cable; and

said first and second angled contact faces forming an angled gap therebetween for clamping a portion of the outer conductor of the coaxial cable therebetween, wherein said gap decreases as said back nut is axially displaced towards said outer terminal, and increases as said back nut is axially displaced away from said outer terminal, and wherein said first angled contact face has a length that is shorter than said predetermined internal diameter, and wherein said second angled contact face has a length that is shorter than said predetermined internal diameter, said first angled contact face directly engaging the inner surface of the outer conductor of the coaxial cable, and

second angled contact face directly engaging the outer surface of the outer conductor of the coaxial cable,

wherein the coaxial cable includes an inner conductor having an outer surface, and wherein the coaxial connector includes an inner terminal adapted to engage the outer surface of the inner conductor of the coaxial cable.

**12. (currently amended)** A method of attaching a coaxial connector to an end of a coaxial cable, the coaxial connector including a removable back nut, a center conductor and an outer body, the outer body comprising an integral clamping surface, the coaxial cable including an inner conductor, a dielectric surrounding the inner conductor, an outer conductor surrounding the dielectric, and a jacket surrounding the outer conductor, the jacket having an outer diameter, the outer conductor having opposing inner and outer surfaces, said method comprising the steps of:

- a. preparing the end of the coaxial cable by:
  - i. removing a portion of the dielectric, outer conductor, and jacket from the inner conductor to expose a portion of the inner conductor extending beyond the end of the outer conductor;
  - ii. removing a portion of the jacket from the outer conductor to expose a portion of the outer surface of the outer conductor; and
  - iii. removing a portion of the dielectric from within the end of the outer conductor to expose a portion of the inner surface of the outer conductor;
- b. inserting the prepared end portion of the coaxial cable through a back nut of the coaxial connector;
- c. flaring an end portion of said outer conductor to provide a flared portion having a length smaller than the outer diameter of the jacket;
- d. engaging the exposed inner conductor of the coaxial cable with the center conductor of the coaxial connector;
- e. placing the clamping surface of the outer body in close proximity to the flared portion of the outer conductor of the coaxial cable; and
- f. securing the back nut of the coaxial connector to the outer body of the coaxial connector to clamp the flared portion of the outer conductor of the coaxial cable between the clamping surface and the back nut of the coaxial connector, wherein the

back nut comprises an integral second clamping surface, and wherein said step of securing the back nut of the coaxial connector to the outer body of the coaxial connector clamps the flared portion of the outer conductor of the coaxial cable between the clamping surface of the outer body and the second clamping surface of the back nut.

13. **(previously presented)** The method recited by claim 12 wherein said step of securing the back nut to the outer body includes the step of axially displacing the back nut, and the flared portion of the outer conductor of the coaxial cable, toward said outer body.

14. **(previously presented)** The method recited by claim 12 wherein:

- a. the back nut includes a threaded surface;
- b. the outer body includes a threaded surface adapted to mate with the threaded surface of the back nut: and
- c. the step of securing the back nut to the outer body includes the step of engaging the threaded surface of the back nut with the threaded surface of the outer body and rotating the back nut relative to the outer body to tighten the back nut onto the outer body.

15. **(canceled)**

16. **(canceled)**

17. **(canceled)**

18. **(canceled)**

19. **(canceled)**

20. **(previously presented)** The connector of Claim 7 wherein the connector further comprises an insulator disposed between the inner terminal and the outer terminal, and wherein the inner terminal, the outer terminal, the insulator and the end portion of the cable define an air space therebetween.

21. **(previously presented)** The connector of Claim 11 wherein the connector further comprises an insulator disposed between the inner terminal and the outer terminal, and wherein the inner terminal, the outer terminal, the insulator and the cable define an air space therebetween.

22. **(previously presented)** The method of Claim 12 wherein the connector further comprises an insulator disposed between the center conductor and the outer

U.S. Serial No. 10/725695  
Filed: 12/01/2003  
Amendment dated: 03/23/2006

body, and wherein the center conductor, the outer body, the insulator and the end of the cable define an air space therebetween.